

REMARKS

The present application includes pending claims 1-29, all of which have been rejected. By this Amendment, claims 1, 11, and 19 have been amended as set forth above. The Applicant submits that the pending claims define patentable subject matter.

Claims 1-2, 4, 7-9, 11-12, 19-20 and 23-24 stand rejected under 35 U.S.C. § 102(b) as being anticipated by United States Patent No. 5,305,363 (“Burke”). Claims 1, 3-5, 7, and 9 stand rejected under 35 U.S.C. § 102(a) as being anticipated by WIPO Patent No. WO 03/002002 A1 (“Okamura”). Claims 11-15 stand rejected under 35 U.S.C. § 102(b) as being anticipated by Reissued United States Patent No. Re. 35,035 (“Anderton”). Claims 11-12 and 15-16 stand rejected under 35 U.S.C. § 102(b) as being anticipated by United States Patent No. 5,226,064 (“Yahata”). Claims 1-4, 6-7, and 25-26 stand rejected under 35 U.S.C. § 102(b) as being anticipated by United States Patent No. 6,669,366 B2 (“Busse”). The Applicant respectfully traverses these rejections at least for the reasons previously set forth during prosecution and the following:

I. Burke Does Not Anticipate Claims 1-2, 4, 7-9, 11-12, 19-20, And 23-24

The Applicant first turns to the rejection of claims 1-2, 4, 7-9, 11-12, 19-20, and 23-24 as being anticipated by Burke. “A claim is anticipated only if **each and every element** as set forth in the claim is found, either expressly or inherently described, in a single prior art reference.” *See* MPEP at § 2131 (internal citation omitted). Further, “[t]he identical invention must be shown in as complete detail as it is contained... in the claim.” *See id.* (internal citation omitted). As discussed below, Burke does not expressly or inherently describe “every element as set forth” in the claims of the present application.

A. Burke Does Not Describe An Auxiliary Module Removably Connected To Said Imaging Device Having A Cooling Unit Configured To Cool Liquid To A Chilled State And Circulate The Chilled Liquid That Is Cooled By The Cooling Unit Itself

Burke describes a scanning system that circulates cooling fluid through a heat exchanger to keep a target anode cool.

The housing and the anode define an annular cooling fluid path or channel 12 in intimate thermal communication with the anode face, specifically along an opposite surface of the anode. The anode can be a large continuous member or assembled form (sic) multiple sections. Optionally, the anode can have internal passages, fins, and the like to promote thermal communication with the cooling fluid. A fluid circulating means 14 circulates the fluid through the stationary anode and housing to a heat exchanger 16 to keep the target anode cool.

See Burke at column 5, lines 1-11.

While the system utilizes a “cooling fluid,” Burke does not describe a cooling unit to chill the fluid. Instead, Burke describes only a fluid by itself that is not **chilled** by any cooling device. Thus, Burke does not, expressly or inherently, describe a cooling unit configured to cool liquid to a chilled state and circulate the chilled liquid to and from the imaging element. Claim 1, for example, recites a cooling unit that cools liquid to “a chilled state” and circulates the “chilled liquid.” While Burke describes a heat exchanger that circulates fluid to cool an anode, it does not describe a unit that cools the temperature of the fluid being circulated to a point in which it is considered “chilled.” The Office Action states that “to chill” is defined as “to lower in temperature; cool.” *See* Final Office Action at page 18. But, the adjective, “chilled,” is defined as “chilly,” which is further defined as “cold enough to cause shivering” and “seized with cold.” *See*

Webster's II New College Dictionary (2001) (copy at relevant page attached as Tab A). Claim 1 has been amended to emphasize this latter use of the term "chilled".

Also, Burke does not describe a module that both cools and circulates cooling fluid. Burke describes a circulating means that is separate and distinct from a heat exchanger, neither of which is part of an individual module as described in claim 1 as currently amended. *See* Burke Fig.1 items 14 and 16. Further, Burke does not disclose that the circulating means, or the heat exchanger, is removably connected to the imaging system as described in claim 1. The Examiner states that the circulating means and the heat exchanger components in Burke are "considered to be removably connected since the two fluid transfer tubes and one cable can be cut... ." *See* Final Office Action at page 19. Removably connected, however, does not mean severable by cutting. Removably connected means capable of being disconnected and subsequently reconnected. *See* Application at ¶¶ 24-25.

Thus, at least for these reasons, the Applicant respectfully submits that Burke does not anticipate claims 1-2, 4, and 19 of the present application, nor claims 7-9, 20, and 23-24, which depend from claims 1 and 19.

B. Burke Does Not Describe An Auxiliary Module Having A Booster Battery Pack, Wherein Said Auxiliary Module Is Separate, Distinct, And Removably Connected Directly To Said Medical Imaging Device

The Applicant now turns to claim 11. Burke describes energy storage devices, such as batteries or capacitors, that are connected to an energy source used to reduce peak power demands from the electrical system of the medical facility. *See* Burke at column 6 line 66 – column 7 line 4. Burke does not, however, either expressly or inherently, describe a power element that is removably connected directly to a medical imaging

device, as described in claim 11 as amended. Thus, at least for this reason, the Applicant respectfully submits that Burke does not anticipate claims 11 or 12 the present application.

C. Burke Does Not Describe An Auxiliary Module Comprising Both A Cooling Unit And A Booster Battery Pack

The Applicant now turns to claim 19. Though Burke describes a heat exchanger for circulating fluid, as well as an energy storage device, Burke does not expressly or inherently describe an auxiliary module comprising devices that perform both functions, nor does it describe a module that is removably connected as described by claim 19 as amended. The Office Action's citations to Burke reference two separate and distinct figures as anticipating claim 19.

...Burke et al. teaches **an auxiliary module (See Fig. 1 item III) comprising a cooling unit** configured to circulate chilled liquid to and from the imaging element, wherein the chilled liquid absorbs heat produced by the imaging element (See Fig. 1 item 14 and 16, Fig. 2 item 10 and 12, Col. 5 lines 1-11); **and a booster battery pack**, wherein said booster battery pack is configured to be electrically connected to the medical imaging system in order to provide additional power to the medical imaging system. (See Fig. 1 item III, Fig. 2 item 93 ad Col. 6 line 66- Col. 7 line 4)

See August 5, 2005 Office Action at page 6. Fig. 1 of Burke shows a CTR scanner system while Fig. 2 shows the x-ray source and detector. The components cited in the Office Action, however, do not expressly or inherently describe a single auxiliary module comprising both a cooling unit and a booster battery pack. At least for these reasons, the Applicant respectfully submits that Burke does not anticipate claims 19, 20 and 23-24.

II. Okamura Does Not Anticipate Claims 1-5, 7, And 9

The Applicant now turns to the rejection of claims 1-5, 7, and 9 as being anticipated by Okamura. The Examiner cites Okamura as anticipating claims 1-5, 7 and 9 of the present application and provides U.S. Patent Application Publication document US2004/0234040 A1 (“Okamura Publication”) as an English language translation of the WIPO document cited.

A. **Okamura Does Not Describe An Auxiliary Module Removably Connected To A Medical Imaging Device That Both Cools Liquid To A Chilled State And Circulates The Chilled Liquid**

According to the Okamura Publication, Okamura discloses an X-ray tube device that is cooled by a system that uses insulating oil circulating within the interior of the X-ray tube device, a heat exchanger, an oil pump, cooling tubes, and an additional cooling device that includes a water pump, a water tank, a refrigerator and an evaporator.

The X-ray tube device 1 is cooled by the insulating oil 3 circulating in the interior of the X-ray tube device 1. The insulating oil 3 is circulated by an **oil pump 2** between the interior of the X-ray tube device 1 and a **heat exchanger 4** for the X-ray tube device. The heat of the insulating oil 3 is exchanged with the heat of the cooling water 5 in the heat exchanger 4.

The X-ray detector 14 is accommodated in, for example, a glass casing 15, and a cooling tube 16, through which the cooling water 5 flows, is disposed on the upper surface of the glass casing 15. The **cooling device 13** is provided with a cooling **water tank 7** in which the cooling water 5 is stored, and the cooling water 5 in the cooling water tank 7 is suctioned by a cooling **water pump 6** and introduced into a **cooling tube 16** through a flexible resin cooling water tube 18. The cooling water 5, which has passed through the **cooling tube 18**, and the cooling water 5, which has passed through the heat exchanger 4, is returned into the cooling water tank 7 through the cooling water tube 18. In the cooling water tank 7, a liquefied refrigerant

supplied from a **refrigerator 9** is evaporated by an **evaporator 8**, thereby the cooling water 5 is cooled.

See Okamura Publication Paragraph [0022] line 9 – Paragraph [0023] line 17.

Okamura, however, does not expressly or inherently, describe an auxiliary module that is **removably** connected (*i.e.*, capable of being disconnected and subsequently reconnected) to an imaging device as recited in claim 1 as amended. Further, Okamura does not expressly or inherently describe a module that by itself is able to “to cool liquid to a chilled state and circulate the chilled liquid to and from said imaging element, wherein the chilled liquid absorbs heat produced by said imaging element,” as recited in claim 1, as amended. At least for these reasons, the Applicant respectfully submits that Okamura does not anticipate claims 1-5, 7, and 9.

B. Okamura Does Not Disclose A Cooling Duct That Is Removably Connected To Said Imaging Element

With respect to claim 5, Okamura discloses cooling tubes that circulate cooling water in order to cool an X-ray detector. However, Okamura does not, either expressly or inherently, describe cooling ducts that are removably connected to an imaging element as described in claim 5 of the present application. The Examiner states:

The X-ray detector 14 is accommodated in, for example, a glass casing 15, and a cooling tube 16, through which the cooling water 5 flows, is disposed on the upper surface of the glass casing 15. This does not require it to be permanently affixed to the plate but merely be disposed on (be put in place).

See Final Office Action at page 22. The Examiner’s logic appears to be that because Okamura does not describe permanent affixation (*i.e.*, a non-removable connection), then it must describe a temporary affixation (*i.e.*, a removable connection). In actuality, however, Okamura does not describe, either expressly or inherently, a connection of any

kind. It simply describes a contacting. At least for this reason, the Applicant respectfully submits that Okamura does not anticipate claim 5 of the present application.

III. Anderton Does Not Anticipate Claims 11-15

The Applicant next turns to the rejection of claims 11-15, as being anticipated by Anderton.

A. Anderton Does Not Describe An Auxiliary Module That Is Separate, Distinct, And Removably Connected Directly To A Medical Imaging Device

Anderton does not expressly or inherently disclose an auxiliary module that is separate, distinct, and removably connected (*i.e.*, capable of being disconnected and subsequently reconnected) directly to a medical imaging device, as recited in claims 11-15. The batteries cited in Anderton (Fig 2. item 49) are a part of the medical imaging device (*i.e.*, the C-Arm X-Ray Unit) itself and are, thus, not a part of an auxiliary module that is separate, distinct and removably connected to the medical imaging device. For at least these reasons, the Applicant respectfully submits that Anderton does not anticipate claims 11-15 of the present application.

B. Anderton Does Not Disclose An Auxiliary Module That Is Permanently Affixed To One Of A Floor Or A Wall

With respect to claim 15, the Examiner notes: “A floor or wall is not part of the medical imaging device.” The floor or wall, however, need not be part of the medical imaging device. The auxiliary module can be “permanently affixed to one of a floor and a wall” as recited in dependent claim 15 while also being “separate, distinct and removably connected to said medical imaging device” as recited in independent claim 11. Thus, claim 15 does further limit “[t]he medical imaging **system** of claim 11.” *See* Claim

15. At least for this additional reason, the Applicant respectfully submits that Anderton does not anticipate claim 15 of the present application.

IV. Yahata Does Not Anticipate Claims 11, 12, And 15-16

The Applicant next turns to the rejection of claims 11, 12, and 15-16 as being anticipated by Yahata.

A. Yahata Does Not Disclose An Auxiliary Module Having A Booster Battery Pack... Wherein Said Auxiliary Module Is Separate, Distinct, And Removably Connected Directly To Said Medical Imaging Device

Yahata discloses a secondary power supply source capable of supplying peak power during a scanning operation.

When the scanning operation is carried out, the DC output derived from the rectifier circuit 2 is superimposed with the DC power supplied from the secondary battery unit 5 and then supplied to the high power consumption unit.

See Yahata, column 4 lines 58 – 62.

Yahata does not, however, either expressly or inherently describe “an auxiliary module having a booster battery pack... wherein said auxiliary module **is separate, distinct, and removably connected** (*i.e.*, capable of being disconnected and subsequently reconnected) directly to said medical imaging device” as described in claim 11 of the present application. Instead, Yahata describes a secondary battery unit that is electrically connected in circuit with a commercial power supply source, and a high power consumption unit, (e.g. an X-ray tube drive unit) such that the battery source is receiving a charge from the commercial supply source when not supplying power to the high power consumption unit.

[T]he **secondary battery unit 5A** is employed as the major power supply source to a high voltage transformer 11 via a chopper circuit 12 and a DC/AC inverter 13. As

a result, the high DC power may be supplied from the secondary battery unit 5A during the scanning operation, and **this secondary battery unit 5A is charged from the single-phase commercial power source 1** during the non-scanning operation. Also, an X-ray tube 9 may be sufficiently driven by this battery unit 5A during the scanning operation.

See Id. at column 5 line 67 – column 6 line 9, and Fig 1 items 1, 3, 5, 100, column 2 line 63 – column 3 line 27.

Yahata describes a battery unit connected with both the imaging device and the commercial power supply source. Yahata does not, however, expressly or inherently describe a battery booster pack that is “separate, distinct, and removably connected directly to said medical imaging device,” as recited in claim 11. At least for these reasons, the Applicant respectfully submits that Yahata does not anticipate claims 11, 12, and 15-16 of the present application.

B. Yahata Does Not Disclose An Auxiliary Module That Is Permanently Affixed To One Of A Floor Or A Wall

With respect to claim 15, the Examiner notes: “A floor or wall is not part of the medical imaging device.” The floor or wall, however, need not be part of the medical imaging device. The auxiliary module can be “permanently affixed to one of a floor and a wall” as recited in dependent claim 15 while also being “separate, distinct and removably connected to said medical imaging device” as recited in independent claim 11. Thus, claim 15 does further limit “[t]he medical imaging **system** of claim 11.” *See* Claim 15. At least for this additional reason, the Applicant respectfully submits that Yahata does not anticipate claim 15 of the present application.

V. Busse Does Not Anticipate Claims 1-4, 6-7, 25-26

The Applicant next turns to the rejection of claims 1-4, 6-7, 25-26 as being anticipated by Busse. Busse discloses a system that applies a cooling medium from a heat exchanger to an X-ray detector and an X-ray source. *See* Busse column 3 lines 4-19.

Busse discloses the following:

The heat exchanger is preferably arranged outside the supporting device; however, a compact heat exchanger can also be integrated in the C arm or be arranged on the C arm when the construction of the overall system is to be smaller.

Id. column 2 line 66 – Col 3. line 3.

Busse, however, does not describe a cooling unit that is part of “an auxiliary module **removably connected** (*i.e.*, capable of being disconnected and subsequently reconnected) to (the) imaging device” as described in amended claim 1. Nor does Busse disclose a method of cooling an x-ray tube involving a module that is “**separate, distinct, and removably connected** to said medical imaging device” as recited in claim 25 as currently amended.

In rejecting claim 6, the first Office Action stated that the auxiliary module of Busse is a part of the entire system. *See* August 5, 2005 Office Action at page 10 (“...entire system is mobile which includes auxiliary module”). Further, in rejecting claim 7, the first Office Action stated that the cooling unit is an integral part of the medical imaging system. *See Id.* (“Busse et al. describes the cooling unit as an integral part of the medical imaging system.”) In response, the Applicant pointed out that the first Office Action appeared to concede that the module containing the cooling unit is not taught to be **removably** connected from the imaging system. *See* October 13, 2005 Amendment at page 20. The Final Office Action, however, summarily states that “[t]he

module (in Busse) is removable by any means.” See Final Office Action at pages 9, 11. There is, however, no support in Busse for the Office Action’s assertion, nor for an assertion that the module is removably connected (*i.e.*, capable of being disconnected and subsequently reconnected). For at least these reasons, the Applicant respectfully submits that Busse does not anticipate claims 1-4, 6-7, or 25-26.

VI. Claim Rejections Under 35 USC § 103

The Applicant respectfully submits that independent claim 25 and dependent claims 10, 17, 21, 22, and 27-29, which depend from claims 1, 11, 19, 20, and 25, respectively, are in condition for allowance at least for the reasons discussed above.

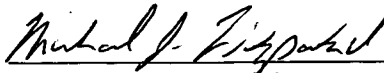
VII. Conclusion

The Applicant respectfully submits that the pending claims of the present application should be in condition for allowance at least for the reasons discussed above and request reconsideration of the claim rejections. If the Examiner has any questions or the Applicant can be of any assistance, the Examiner is invited to contact the undersigned attorney for the Applicant. The Commissioner is authorized to charge any necessary fees or credit any overpayment to the Deposit Account of McAndrews, Held & Malloy, Account No. 13-0017.

Respectfully submitted,

Date: January 10, 2006

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Illustrations **azimuthal equidistant projection** and **sinusoidal projection**
© 1986 by The American Congress on Surveying and Mapping.

ISBN 0-395-96214-5

ISBN 0-618-16903-2 (paper-over-boards binding)

Library of Congress Cataloging-in-Publication Data

Webster's II new college dictionary.

p. cm.

ISBN 0-395-70869-9 (alk. paper)

1. English language -- Dictionaries. I. Webster's II new Riverside University dictionary

PE1628.W55164 1995

423-dc20

95-5833

CIP

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Printed in the United States

cessories for women's clothing. — *adj.* 1. Of, relating to, or like chiffon. 2. Having a light and fluffy consistency.

chif-fo-nier (shif'ə-nir') *n.* [Fr. < *chiffon*, rag. — see CHIFFON.] A narrow, high chest of drawers, often with an attached mirror.

†**chif-fo-robe** (shif'ə-rōb', shif'rōb') *n.* [CHIFFO(NIER) + (WARD)-ROBE.] *Regional.* A tall piece of furniture typically having drawers on one side and space for hanging clothes on the other.

chig-ger (chig'ər) *n.* [Var. of CHIGOE.] 1. Any of various small six-legged larvae of mites of the family Trombididae, causing intensely irritating itching when lodged on the skin. 2. CHIGOE 1.

chi-gnon (shēn-yōn', shēn'yōn') *n.* [Fr. < OFr. *chaignon*, chain < Lat. *catena*.] A roll or knot of hair worn at the back of the head or nape of the neck.

chig-oe (chig'ō, chē'gō) *n.* [Of Cariban orig.] 1. A small tropical flea, *Tunga penetrans*, of which the fertile female burrows under the skin, causing intense irritation and sores that may become severely infected. 2. CHIGGER 1.

Chi-hua-hua (chī-wā'wā, -wə) *n.* [After *Chihuahua*, Mexico.] A tiny dog orig. bred in Mexico, with pointed ears and a smooth coat.

chil-blain (chil'blān') *n.* [CHIL(L) + BLAIN.] An inflammation followed by itchy irritation on the hands, feet, or ears, caused by exposure to moist cold. — **chil'blained'** *adj.*

child (child) *n., pl. chil-dren* (chil'drən) [ME < OE *cild*.] 1. A person between birth and puberty. 2. a. An unborn infant: FETUS. b. A baby: infant. 3. A childish or immature person. 4. A son or daughter: OFFSPRING. 5. *often children.* Members of a tribe: DESCENDANTS <children of Abraham> 6. Figurative offspring <a child of nature> — **with child.** Pregnant. — **child'less** *adj.* — **child'less-ness** *n.*

▲ **word history:** The plural of *child* is really a double plural, and neither plural suffix belongs to the original declension of the word. The earliest Old English form *cild* was a neuter noun that formed the plural by adding no suffix, like the Modern English words *sheep* and *deer*. Other neuter nouns, however, formed plurals by suffixing *-ru*, and in later Old English times a new plural, *cildru*, was used for *cild*. This form developed into *childer*. In Old English still another class of nouns formed the plural with the suffix *-an*, which survived in Middle English as *-en*. *Oxen* and *brethren* are modern plurals that show this suffix. In some dialects of Middle English *-en* was the usual plural suffix, and it was added to *childer* to make it conform to other nouns. *Childeren* was probably pronounced *children*, which became the modern spelling of the plural of *child*.

child abuse *n.* Maltreatment of a child by a parent, guardian, or other adult that includes intentional acts resulting in physical injury, toleration of and complicity in conditions injurious to the child's health, or sexual assault upon the child.

child-bear-ing (child'bār'ing) *n.* Parturition.

child-bed (child'bēd') *n.* The state of a woman in childbirth.

childbed fever *n.* Puerperal fever.

child-birth (child'būth') *n.* Parturition.

child-care or **child-care** (child'kār') *adj.* Of or providing care for children, esp. preschoolers. — **child'care'** *n.*

childe (child) *n.* [ME *child*, *child*.] *Archaic.* A child of noble birth.

child-hood (child'hōod') *n.* The time or state of being a child.

child-ish (chil'dish) *adj.* 1. Of, similar to, or for a child. 2. Lacking maturity: PUERILE. — **child'ish-ly** *adv.* — **child'ish-ness** *n.*

★ **syns:** CHILDISH, BABYISH, IMMATURE, INFANTILE, JUVENILE, PUERILE *adj.* **core meaning:** of or characteristic of a child, esp. in immaturity <childish temper tantrums> **ant:** ADULT

child labor *n.* Full-time employment of children under a minimum legal age.

child-like (child'lik') *adj.* Like or befitting a child <a childlike, innocent smile> — **child'like-ness** *n.*

child neglect *n.* Failure on the part of a parent or parental substitute to supervise a child and provide requisite care and protection.

child-proof (child'prōof') *adj.* Designed to resist tampering by children <a childproof aspirin bottle>

chil-dren (chil'drən) *n. pl.* of CHILD.

child's play *n.* 1. An easy task. 2. A trivial matter.

chil-e (chil'ē) *n. var.* of CHILI.

chil-e con car-ne also **chil-i con car-ne** (chil'ē kōn kār'nē) *n.* [Sp.: *chile*, chili + *con*, with + *carne*, meat.] A highly spiced dish of red peppers, meat, and often beans.

Chile saltpeter *n.* Sodium nitrate.

chil-i also **chil-e** or **chil-li** (chil'ē) *n., pl. -ies* also *-es* or *-lies*. [Sp. *chile* < Nahuatl *chilli*.] 1. a. The very pungent fruit of several varieties of a woody plant, *Capsicum frutescens*. b. A condiment made from the dried fruits of the chili. 2. Chile con carne.

chil-i-ad (kil'ē-ād', -əd) *n.* [LLat. *chilias*, *chiliad* < Gk. *khilias* < *khilioi*, thousand.] 1. A group containing 1,000 elements. 2. One thousand years.

chil-i-asm (kil'ē-āz'əm) *n.* [NLat. *chiliasmus* < LLat. *chiliastes*, a chiliast < *chilias*, chiliad.] The belief that Christ will reign on earth for 1,000 years. — **chil'i-ast'** (-āst', -ast) *n.* — **chil'i-as'tic** *adj.*

chil-i-bur-ger (chil'ē-būr'gar) *n.* A hamburger covered with chili.

chil-i-con car-ne (chil'ē kōn kār'nē) *n. var.* of CHILE CON CARNE.

chil-i-dog (chil'ē-dōg', -dōg') *n.* A dog covered with chili.

chili pepper *n.* CHILI 1.

chili powder *n.* A condiment consisting of ground chilies mixed with several seasonings, such as cumin, oregano, and garlic.

chili sauce *n.* A spiced sauce of chilies and tomatoes.

chill (chil) *n.* [ME *chele* < OE *cēle*.] 1. A moderate but penetrating cold. 2. A feeling of coldness, as with a fever. 3. A dampening of enthusiasm, spirit, or joy <bad news that put a chill on the party> 4. A sudden numbing fear or dread. — *adj.* 1. Chilly. 2. Dispiriting: discouraging. — *v.* **chilled, chill-ing, chills.** — *vt.* 1. To affect with cold. 2. To discourage. 3. To lower in temperature. 4. *Metallurgy.* To harden (a metallic surface) by rapid cooling. — *vi.* 1. To be seized with cold. 2. To become cold. 3. *Metallurgy.* To become hard by rapid cooling. — **chill'ing-ly** *adv.* — **chill'ness** *n.*

chill-er (chil'ər) *n.* One that chills or frightens: THRILLER.

chil-li (chil'ē) *n. var.* of CHILI.

chill-y (chil'ē) *adj. -ier, -iest.* 1. Cold enough to cause shivering. 2. Seized with cold: SHIVERING. 3. Distant and cool: UNFRIENDLY <a chilly greeting> — **chill'i-ly** *adv.* — **chill'i-ness** *n.*

chil-lo-pod (kil'lə-pōd') *n.* [NLat. *Chilopoda*, class name: Gk. *khilōs*, lip + Gk. *pous*, foot (so called because the foremost pair of legs are jawlike appendages).] Any of various arthropods of the class Chilopoda, including the centipedes.

chi-mae-ra (ki-mir'ə, ki-) *n.* [NLat. *Chimaera*, type genus < Lat. *chimera*.] 1. One of the noncommercial fish of the family Chimaeridae. 2. *var.* of CHIMERA.

chime¹ (chim) *n.* [ME *chimbe* < OFr., var. of *cimble*, cymbal < Lat. *cymbalum*. — see CYMBAL.] 1. An apparatus for striking a bell or bells to make a musical sound. 2. *often chimes.* A set of bells tuned to the musical scale and used as an orchestral instrument. 3. A single bell. 4. The musical sound made by a bell or bells. 5. Agreement: accord <Their views are in chime with mine> — *v.* **chimed, chim-ing, chimes.** — *vi.* 1. To sound with a harmonious ring when struck. 2. To make a musical sound by striking a chime. 3. To agree: harmonize <Their opinions chimed with ours> — *vt.* 1. To produce (music) by striking bells. 2. To strike (a bell) to produce music. 3. To make known (the hour) by ringing bells. 4. To call, send, or welcome by ringing bells. — **chime in.** 1. To break into, as a conversation: INTERRUPT <chimed in with an extraneous comment> 2. To join in harmoniously. — **chim'er** *n.*

chime² (chim) *n.* [ME *chimb*.] The rim of a cask.

chi-mae-ra also **chi-mae-ra** (ki-mir'ə, ki-) *n.* [ME *chimere* < OFr. < Lat. *chimera* < Gk. *khimaira*.] 1. *Chimera.* Gk. Myth. A fire-breathing she-monster usu. depicted as a composite of a lion, a goat, and a serpent. 2. A foolish fancy. 3. *Biol.* An organism, esp. a plant, with tissues from at least two genetically distinct parents.



Chimera

chi-mer-i-cal (ki-mēr'ī-kəl, -mīr', ki-) also **chi-mer-ic** (-mēr'ik, -mīr'-) *adj.* 1. Like a chimera: IMAGINARY. 2. Given to unrealistic fantasies: FANCIFUL. — **chi-mer'i-cal-ly** *adv.*

chim-ney (chim'nē) *n., pl. -neys.* [ME *chimene* < OFr. *cheminee* < LLat. *caminata*, fireplace < Lat. *caminus*, furnace < Gk. *kaminos*.]

1. a. A structural passage through which smoke and gases escape from a fire or furnace: FLUE. b. The usu. vertical structure containing a chimney. c. The part of such a structure rising above a roof. 2. *Chiefly Brit.* A smokestack, as of a locomotive. 3. A glass tube for enclosing a lamp's flame. 4. Something, as a narrow cleft in a cliff, resembling a chimney.

chim-ney-piece (chim'nē-pēs') *n.* 1. The mantel of a fireplace. 2. A decoration over a fireplace.

chimney pot *n.* A pipe put on top of a chimney to improve draft.

chimney sweep *n.* One who cleans soot from chimneys.

chimney swift *n.* A small, dark, swallowlike New World bird, *Chaetura pelagica*, that frequently nests in chimneys.

chimp (chīmp) *n. Informal.* A chimpanzee.

chim-pan-zee (chim'pān-zē', -pān-, chim'pān'zē) *n.* [Of Bantu orig.] An anthropoid ape, *Pan troglodytes* of tropical Africa, having gregarious habits and a high degree of intelligence.

chin (chin) *n.* [ME < OE *cin*.] The central forward portion of the lower jaw. — *v.* **chinned, chin-ning, chins.** — *vt.* 1. To pull (oneself)

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